

The world's best

PC processor.



AMD Athlon™ 64 FX processor overview

The AMD Athlon™ 64 FX processor features innovative technology to provide extraordinary performance and a computing experience without parallel. The AMD Athlon 64 FX processor runs on AMD64, a revolutionary technology that allows the processor to run 32-bit applications at full speed while enabling the coming wave of powerful, 64-bit software applications. AMD64 technology shatters barriers to new and advanced software that requires 64-bit technology and blazing processor performance. Power-hungry enthusiasts, gamers, and prosumers can explore the full potential of AMD64 technology while enjoying outstanding performance on today's PC software.

The next generation of games and digital content creation applications will demand unprecedented performance to provide an extraordinary level of realism and awesome 3D graphics. Systems based on the AMD Athlon 64 FX processor are able to deliver leading-edge performance for the most demanding entertainment and content creation software today and in the future. With AMD64, life-like games with cinema-quality graphics and pro-level video editing are within PC users' reach. Advanced 64-bit operating systems for the AMD64 platform from Microsoft®, Red Hat, SuSE, and TurboLinux have already been announced, and they only run on processors with AMD64 technology.

Superior technology

The AMD Athlon 64 FX processor is the only Windows® compatible 64-bit PC processor and the world's most technically advanced PC processor. It features several technology innovations for immersive, cinematic-computing experiences. The AMD64 architecture doubles the number of general purpose and SSE/SSE2 registers for improved performance and enhances multimedia processing with

3DNow!™ Professional technology and SSE2 technology. HyperTransport™ technology increases overall system performance by reducing I/O bottlenecks, increasing system bandwidth, and reducing system latency. A 128-bit integrated DDR memory controller, together with industry standard DDR memory technology, provides extreme bandwidth – up to 6.4GB per second, and significantly reduces memory latency, improving performance for virtually all applications. The AMD Athlon 64 FX processor boasts the industry's largest on-die, high-performance cache memory system for PC processors, enhancing performance for many applications, especially large workloads.

Transform your computing experience

The AMD Athlon 64 FX processor is designed for the most demanding PC software that extend the capabilities of today's desktop computer, driving applications to a new level of performance and potential:

- **Game play:** A game that is optimized for AMD64 can command a phenomenal amount of memory for textures, world models, and characters. The large physical memory and smart memory management of the AMD Athlon 64 FX processor can provide excellent performance and access to a new level of cinema-quality gaming realism. Multi-player games and 3D environments can grow to massive proportions and incorporate stunning detail.
- **Game development and modification:** AMD64 offers large memory capacity and other architectural performance improvements for fast and efficient compiling, level editing, development of complex 3D models, and asset management. The growing trend toward user-generated content can accelerate, and tap the creative efforts of thousands of game modification enthusiasts.



Founded in 1969, AMD has shipped more than 240 million PC processors worldwide. Customers can depend on the AMD Athlon 64 FX processor and AMD for compatibility and reliability. AMD processors undergo extensive testing to ensure compatibility with Microsoft Windows XP, Windows 98, Windows ME, Windows NT, Windows 2000, as well as Linux and other PC operating systems. AMD works collaboratively with Microsoft and other partners to achieve compatibility of AMD processors and to expand the capability of software and hardware products leveraging AMD64 technology. AMD conducts rigorous research, development, and validation to help ensure the continued integrity and performance of its products.

- **Game serving and file sharing:** Multi-player games and peer-to-peer software that run on central servers can accommodate more users and larger physical environments. With the AMD Athlon™ 64 FX processor, more CPU horsepower is available for physics simulation, player interactions, and network connections.
- **Digital content creation:** AMD64 applications can leverage huge physical memory and 64-bit processing to manipulate huge images and complex audio & video content.
- **Professional grade results:** With AMD64 many professional grade applications can be employed to create professional grade results on a desktop PC including design, engineering, simulation, and science applications.

Purchase with confidence

The AMD Athlon 64 FX processor, together with AMD Athlon 64 processor, is the only industry standard x86 processor with the ability to move beyond the limits of 32-bit computing. The AMD Athlon 64 FX processor is fully compatible with Microsoft Windows XP and tens of thousands of PC applications that people around the world use every day. The award-winning AMD Athlon XP processor won over 100 industry accolades and was the first 1.0GHz PC processor. Now, the AMD Athlon 64 FX processor reaches a new milestone by building a path to 64-bit computing for millions of PC users.

About AMD

Founded in 1969 and based in Sunnyvale, California, AMD (NYSE: AMD) is a global supplier of integrated circuits for the personal and networked computer and communications markets with manufacturing

facilities in the United States, Europe, Japan, and Asia. AMD, a Standard & Poor's 500 company, produces microprocessors, Flash memory devices, and silicon-based solutions for communications and networking applications.

For more information, please visit <http://www.amd.com/athlon64fxprocessor>

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Printed in the USA

30689A

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